

# CURRICULUM VITAE

NAME: Gong Tang  
BUSINESS ADDRESS: Department of Biostatistics  
University of Pittsburgh  
7134 Public Health  
130 DeSoto Street  
Pittsburgh, PA 15261  
Phone: 412-624-3027  
Fax: 412-624-2183  
E-mail: got1@pitt.edu

## EDUCATION AND TRAINING

### **Undergraduate**

9/1987 - 7/1991	Beijing University Beijing, China	BS, 1991	Mathematics
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### **Graduate**

9/1991 - 7/1994	Beijing University Beijing, China	MS, 1994	Mathematics
9/1994 - 5/1996	John Hopkins University Baltimore, MD	MA, 1996	Mathematics
9/1996 - 7/2001	University of Michigan Ann Arbor, MI	PhD, 2001	Biostatistics

## APPOINTMENTS AND POSITIONS

### Academic

5/1/2013 - Present	Associate Professor	Department of Biostatistics, GSPH, University of Pittsburgh
8/1/2001 – 4/30/2013	Assistant Professor	Department of Biostatistics, GSPH, University of Pittsburgh

### Non-Academic

2/2014 - Present	Senior Statistician	Statistics and Data Management Center The NRG Oncology
8/2001 – 1/2014	Statistician	The NSABP Biostatistical Center

## CERTIFICATION AND LICENSURE

### Specialty Certification

Year	Name of Certificate	Certifying Board
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### Medical or Other Professional Licensure

Type of License	Licensing Board	State
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## MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

2001 - Present	Member, American Statistical Association
2001- 2015	ENAR, International Biometrics Society
2011- 2015	International Chinese Statistical Association

## HONORS

2001	ENAR Student Travel Award
2010	Best of ASCO from the American Society of Clinical Oncology
2013	Chapter Service Award from the American Statistical Association Council of Chapters

## PROFESSIONAL ACTIVITIES

### 1. Teaching

#### a. Courses Taught

Years Taught	Course Number: Title	Hours of Lecture, credits Average Enrollment	Role in course Primary/Coordinator
2002	2089: The EM Algorithms and Its Applications	2 hours/ 2 credits 12	Primary Instructor
2002-2016 Even years	2040: Elements of Stochastic Processes	3 hours/ 3 credits About 10	Primary Instructor
2003-2017 Odd years	2065: Analysis of Incomplete Data	3 hours/ 3 credits About 10	Primary Instructor
2018-9	2061: Likelihood Theory and Applications	2 hours/ 2 credits 12	Primary Instructor
2008-2019	3010: Research and Dissertation	1 hour/ 1 credit 1	Primary Instructor
2002, 2003, 2011, 2012	2025: Biostatistics Seminar Series	1 hours/ 1 credit	Coordinator

#### b. Other Teaching (lectures, tutorials and continuing education courses)

Date(s)	Type of Teaching	Title
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#### c. Major Advisor for Graduate Student Essays, Theses, and Dissertations

<b>Name of Student</b>	<b>Degree Awarded, Year</b>	<b>Type of Document and Title</b>	<b>Notes</b>
Fang Zhu	PhD, 2008	Thesis: An index of local sensitivity to nonignorability and a penalized pseudolikelihood method for data with nonignorable nonresponse	
Yuan Kong	PhD, 2009	Thesis: To predict a future closure data for a multi-center trial with a Poisson process modeling patient accrual	
Yu-Mi Kwon	PhD, 2010	Thesis: An imputation method for analysis of multivariate missing data	
Yang Zhang	PhD, 2013	Thesis: Statistical Methods for Classification based on Dose Response Data; A Modified EM Algorithm	
Seunghyun Won	PhD, 2014	Thesis: Joint modeling of time-to-event data and discrete diagnostic tests without a gold standard	
Megan Olson Hunt	PhD, 2014	Thesis: The effect of imputing a complex outcome on the rejection rate of Pearson's chi-square test	
Judah Abberbock	PhD, 2017	Thesis: Usage of Surrogate Endpoints in the Design and Analysis of Clinical Trials	
Chunming Zhu	MS, 2011	Thesis: APPLICATION OF MULTIPLE IMPUTATION IN ANALYSIS OF MISSING DATA	
Yan Peng	MS, 2011	Thesis: Comparison of prognostic markers for censored outcomes: application in the NSABP B-14 study	
Yanjie Ren	MS, 2015	Thesis: Interim Monitoring and Conditional Power	
Chenxin Yang	MS, 2019	Thesis: Personalized Medicine: Application To A Breast Cancer Study	
Jie Yao	MS, 2019	Thesis: Modelling stillbirths with natural cubic splines	
Jinhong Li	MS, 2020	Thesis: Analyses of Repeatedly Measured Blood Pressure Data from A Cohort Study with Splines	

#### **d. Service on Masters or Doctoral Committees**

<b>Dates Served</b>	<b>Name of Student</b>	<b>Degree Awarded</b>	<b>Title of Dissertation/Essay</b>
December, 2003	Zhiwei Zhang	Ph.D. Biostatistics	Maximum Likelihood Estimation in Parametric Regression Models with Missing Covariates
Aug., 2002	Kelly Im	M.S. Biostatistics	Rank Test for Data with Missing Values
September 2003	Yun-Rong Ye	Ph.D. Biostatistics	Two Approaches to Analyzing Binary Longitudinal Data with Informative Missing Values which Extend the TenHave's Shared Parameter Model
March, 2004	Chang-Yu Sheng	Ph.D. Biostatistics	Regression Analysis in Longitudinal Studies with Non-ignorable Missing Outcomes
December, 2004	Shui He	Ph.D. Biostatistics	A Robust Approach for Fitting Generalized Additive Models (GAMS) with Concurvity in the Data
June, 2005	Gina D'Angelo	Ph.D. Biostatistics	Application of Semiparametric Methods for Regression Models with Missing Covariate Information
August, 2005	Dianxu Ren	PhD Biostatistics	A Bayesian Adjustment for Covariate Misclassification with Correlated Binary Outcome Data
September, 2007	Kang Sun	PhD Biostatistics	Mediational Models with Multiple Outcomes in Cross-sectional and Longitudinal Models
May, 2008	Rick E. Blakesley	PhD Biostatistics	Parametric control of the familywise error rate and generalized FWER and dependent P-values
June, 2008	Jie Wang	PhD, Statistics	Bathtub failure rates in reliability and dependence in multiple testing
October, 2008	Zhibao Mi	PhD Biostatistics	Dimension reduction and robust classification by genomic and cell-based Assays
April, 2009	Xingxing Dong	MS Biostatistics	Analysis of effect of missing data in the study of racial difference in endometrial cancer survival

<b>Dates Served</b>	<b>Name of Student</b>	<b>Degree Awarded</b>	<b>Title of Dissertation/Essay</b>
August, 2009	Myoungkeun Lee	MS Biostatistics	A Comparison of Likelihood-Based Methods and Non-Likelihood-Based Methods for Genetic Association Tests Using Case-Control and Trio Designs
August, 2009	Ya-Hsiu Chuang	PhD Biostatistics	A Comparative Analysis of Inferential Procedures for Air Pollution Health Effects Studies
2009	Shuya Lu	PhD Biostatistics	Biomarker Detection in the Integration of Multiple Multi-class Genomic Studies
2011	Jonathan Yabes	PhD Biostatistics	Semiparametric estimators in competing risks regression models
2012	Carol Janney	PhD Epidemiology	Physical activity in overweight and obese adults with schizophrenia and schizoaffective disorders
2012	Jamie Eastman	PhD Epidemiology	Association of BV with spontaneous abortion, preterm birth, and low birth weight
2013	Li-chuan Tu	DPH Biostatistics	THE PERFORMANCE OF BIASED-COIN MINIMIZATION IN MULTICENTER RANDOMIZED CLINICAL TRIALS
2013	Fanyin He	PhD Biostatistics	THE PERFORMANCE OF BIASED-COIN MINIMIZATION IN MULTICENTER RANDOMIZED CLINICAL TRIALS
2014	Qing Liu	PhD Biostatistics	DYNAMIC PREDICTION IN COMPETING RISKS
2014	Rui Chen	PhD Biostatistics	META-ANALYSIS FRAMEWORK FOR PEAK CALLING BY COMBINING MULTIPLE CHIP-SEQ ALGORITHMS AND GENE CLUSTERING BY COMBINING MULTIPLE TRANSCRIPTOMIC STUDIES

<b>Dates Served</b>	<b>Name of Student</b>	<b>Degree Awarded</b>	<b>Title of Dissertation/Essay</b>
2015	Tianxiu Wang	PhD Biostatistics	COMPETING RISKS REGRESSION UNDER RANDOM SIGNS CENSORING USING PSEUDO-VALUES
2017	Yimeng Liu	PhD Biostatistics	A SERIES OF TWO-SAMPLE NON-PARAMETRIC TESTS OF QUANTILE RESIDUAL LIFETIME
2017	Gondwe, Tamala	PhD Epidemiology	Cesarean section delivery in India: an analysis of maternal factors and infant outcomes
2018	Ark Fang	PhD Biostatistics	Integration and Missing Data Handling in Multiple Omics Studies
2020	Fouzia Farooq	PhD Candidate Epidemiology	Impact of preconception cardiometabolic and thyroid dysfunction on preterm birth in reproductive-age women

**e. Service on Comprehensive or Qualifying Examination Committees**

<b>Dates Served</b>	<b>Student Population</b>	<b>Type of Exam</b> (Qualifying/Comprehensive)
2001-2011	6-15 Ph.D. Biostatistics	Qualifying

**f. Supervision of Post-Doctoral Students, Residents, and Fellows**

<b>Dates Supervised</b>	<b>Name of Student</b>	<b>Position of Student</b>
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**g. Mentoring of Graduate Students in Field Placements**

<b>Dates</b>	<b>Name of Student</b>	<b>Degree/Program Description</b>	<b>Field Site</b>
			Agency/Organization Location

**h. Other Teaching and Training**

<b>Dates</b>	<b>Teaching Activity</b>	<b>Program/Description</b>
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**2. Research and Training**

a. Grants and Contracts Received

**Principal Investigator**

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Annual Direct Costs</b>	<b>% Effort</b>
2002-2003	Central Research Development Fund. 04-34201-36742 Analysis of longitudinal data with non-ignorable nonresponse	University of Pittsburgh	\$6,500	0
2007-2012	Pooled Analysis of Petroleum Case Control Studies	ExxonMobil Biomedical Sciences	\$14,000	5%
2011-2	Validation of the Multi-Gene Predictors in NSABP B-27 and Development of Statistical Methodologies for Analysis of Chemo-Sensitivity Assay Data Using NSABP B-40 Data	Precision Therapeutics, Inc.	\$42,029	5%
2011-3	Stat Support for the Study of Molecular Predictors of Locoregional Recurrence in B-28 Node Positive Breast Cancer Patients	Aultman Hospital	\$10,989	6.5%



**Co-Principal Investigator**

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Annual Direct Costs</b>	<b>% Effort</b>
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**Co-Investigator on Grants**

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Annual Direct Costs</b>	<b>% Effort</b>
2001- 2014	Biostatistical Center for the NSABP	NCI	\$2,318,590	50
2001-2007	Clinical Oncology Program Biostatistical Center	NCI	\$3,363,516	25
2007-2009	Master Collaborative Agreement with the NSABP Foundation	NSABP Foundation	\$351,058	25
2009-2014	Phase III Trial of Neoadjuvant Therapy for Patients with Palpable and Operable HER2-Positive Breast Cancer Comparing the Combination of Trastuzumab Plus Lapatinib to Trastuzumab and to Lapatinib Administered with Weekly Paclitaxel Following AC: NSABP B-41	NSABP Foundation INC	\$53,638	15
2005-2008	1 T32 MH073451 Training Biostatisticians in Psychiatric Research Program	NIMH		0
2007-2008	Statistical Approaches for Misclassified or Missing Racial and Ethnic Data in VA Health Equity Research	VA	N/A	6
4/1/2008 - 3/31/2013	Novel Bacterial Pathogens in Pelvic Inflammatory Disease	NIA	\$412,895	15
7/1/2009- 6/30/2013	Vitamin D: a Link to Racial Disparities in Birth Outcomes	NICHD	\$408,152	10

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Annual Direct Costs</b>	<b>% Effort</b>
2011-2013	Stat Support for the Study of Molecular Predictors of Locoregional Recurrence in B-28 Node Positive Breast Cancer Patients	Aultman Hospital	\$10,989	6.5
09/10 – 09/12	Mycoplasma Genitalium and Pelvic Inflammatory Disease	NIH	\$222,336	5
07/11-08/12	The Role of Novel, Uncultivable Bacteria	NIH	\$662,779	15
4/2014-2/2019	NRG Oncology Statistical and Management Center	NCI	\$9,037,430	30
5/2016-4/2018	Mycoplasma genitalium, differentiated Ureaplasma species, and pregnancy outcomes	NIAID	\$125,000	5
<b>9/2015-8/2020</b>	<b>Consortium for the Study of Pancreatitis: Pittsburgh Clinical Center</b>	<b>NIDDK</b>	<b>\$220,472</b>	<b>10</b>
<b>4/2017-3/2020</b>	<b>Glycocalyx pathways linking pregnancy profile with microvascular dysfunction postpartum</b>	<b>American Heart Association</b>	<b>\$3,372,000</b>	<b>10</b>
<b>5/2017-2/2022</b>	<b>Mitochondrial Determinants of Congestive Outcomes in ARDS and Sepsis</b>	<b>NIH</b>	<b>\$311,501</b>	<b>5</b>
<b>9/2017-8/2020</b>	<b>Utilizing Clinical Metadata to Predict High-cost Complications and Treatment Response in IBD: Development of Clinical Decision Support Tools</b>	<b>DOD</b>	<b>\$2,584,199</b>	<b>30</b>
<b>8/2018-7/2019</b>	<b>Prospective Epidemiologic Stud Of Novel Etiologic Agents Of Pelvic Inflammatory Disease</b>	<b>NIAID</b>	<b>\$592,054</b>	<b>15</b>
<b>3/2019-2/2025</b>	<b>NRG Oncology Statistics and Data Management Center (SDMC)</b>	<b>NCI</b>	<b>\$60,799,128</b>	<b>30</b>

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Annual Direct Costs</b>	<b>% Effort</b>
2019-2024	NEUROPATHIC VS. INFLAMMATORY PAIN IN CHRONIC PANCREATITIS: CAN UNIQUE BIOMARKERS BE IDENTIFIED TO GUIDE MECHANISTIC APPROACHES TO PAIN TREATMENT?	NIH	\$138,350	0

**Several industry grants are not listed here. I used them to support students.**

**b. Invited Lectureships and Major Seminars Related to Your Research**

<b>Date</b>	<b>Title of Presentation</b>	<b>Venue</b>
2004	Analysis of Longitudinal Data with Non-ignorable Nonresponse	ASA Indianapolis Chapter
2005	A Pseudolikelihood Method for Analysis of Multivariate Data with Nonignorable Nonresponse	Dept of Biostatistics and Epidemiology, University of Pennsylvania
2006	Analysis of Longitudinal Data with Dropouts and A Case Study	Dept of Psychiatry Seminar series, University of Pittsburgh
2010	Recurrence risk of node-negative and ER-positive early stage breast cancer patients by combining Recurrence Score, pathologic, and clinical information: a meta analysis approach	Best of ASCO Chinese Society of Clinical Oncology; 2010 Jul; Nanjing China.
2011	Recent development on a pseudolikelihood method for analysis of multivariate data with nonignorable nonresponse	Dept of Biostatistics and Computational Biology Colloquium; University of Rochester

<b>Date</b>	<b>Title of Presentation</b>	<b>Venue</b>
2013	Change-Point Analysis for Conditional Logistic Regression Models with P-spline	IMS-SWUFE International Conference on Statistics and Probability; Chengdu, China
2014	A Modified Expectation-Maximization Algorithm for Analysis of Data with Missing Values	Biostatistics Seminar, Department of Statistics, North Carolina State University, Raleigh, NC
2015	Patient-specific meta-analysis for risk assessment using multivariate proportional hazards regression	ISBS/DIA Symposium on Biopharmaceutical Statistics; Beijing, China
2015	An Approximated Expectation-Maximization Algorithm for Analysis of Data with Missing Values	NISS workshop: non-ignorable nonresponse. Bureau of Labor Statistics, Washington, DC

### **c. Other Research and Training Activities**

<b>Date</b>	<b>Position</b>	<b>Description of Activity</b>
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## **PUBLICATIONS**

### **1. Refereed Articles**

1. Authors (same order as publication, Last name, first and middle initials). Title of Article. *Journal Title*. Year and Date. Volume (Issue): pages.
1. Swain SM, Tang G, Brauer HA, Goerlitz DS, Lucas PC, Robidoux A, Harris BT, Bandos H, Ren Y, Geyer CE, Rastogi P, Mamounas EP, Wolmark N. NSABP B-41, a Randomized Neoadjuvant Trial: Genes and Signatures Associated with Pathologic Complete Response. *Clin Cancer Res*. 2020 May 5;. doi: 10.1158/1078-0432.CCR-20-0152. [Epub ahead of print] PubMed PMID: 32371537.

2. Haggerty CL, Ness RB, Totten PA, Farooq F, Tang G, Ko D, Hou X, Fiedler TL, Srinivasan S, Astete SG, Fredricks DN. Presence and Concentrations of Select Bacterial Vaginosis-Associated Bacteria Are Associated With Increased Risk of Pelvic Inflammatory Disease. *Sex Transm Dis.* 2020 May;47(5):344-346. doi: 10.1097/OLQ.0000000000001164. PubMed PMID: 32149953; PubMed Central PMCID: PMC7167351.
3. Forsmark CE, Tang G, Xu H, Tuft M, Hughes SJ, Yadav D. The use of pancreatic enzyme replacement therapy in patients with a diagnosis of chronic pancreatitis and pancreatic cancer in the US is infrequent and inconsistent. *Aliment Pharmacol Ther.* 2020 May;51(10):958-967. doi: 10.1111/apt.15698. Epub 2020 Apr 6. PubMed PMID: 32249970.
4. Machicado JD, Papachristou GI. Pancreatogenic diabetes, acute pancreatitis management, and pancreatic tuberculosis: Appraising the present and setting goals for the future. *United European Gastroenterol J.* 2020 May;8(4):365-368. doi: 10.1177/2050640620917017. PubMed PMID: 32364055.
5. Koutroumpakis F, Lodhi M, Ahsan M, Ramos Rivers C, Schwartz M, Hashash JG, Babichenko D, Tang G, Nagpal T, Dunn M, Keshavarzian A, Binion DG. The Impact of Cholecystectomy on Long-Term Disease Outcomes and Quality of Life in Patients with Crohn's Disease. *Inflamm Bowel Dis.* 2020 Apr 20;. doi: 10.1093/ibd/izaa076. [Epub ahead of print] PubMed PMID: 32313925.
6. Pothoulakis I, Paragomi P, Archibugi L, Tuft M, Talukdar R, Kochhar R, Goenka MK, Gulla A, Singh VK, Gonzalez JA, Ferreira M, Barbu ST, Stevens T, Nawaz H, Gutierrez SC, Zarnescu NO, Easler J, Triantafyllou K, Pelaez-Luna M, Thakkar S, Ocampo C, de-Madaria E, Wu BU, Cote GA, Tang G, Papachristou GI, Capurso G. Clinical features of hypertriglyceridemia-induced acute pancreatitis in an international, multicenter, prospective cohort (APPRENTICE consortium). *Pancreatology.* 2020 Apr;20(3):325-330. doi: 10.1016/j.pan.2020.02.010. Epub 2020 Feb 19. PubMed PMID: 32107193.
7. Lewis MD, Talluri J, Wilcox CM, Abberbock JN, Tang G, Conwell DL, Banks PA, Cote GA, Sherman S, Alkaade S, Gardner TB, Anderson MA, Sandhu BS, Muniraj T, Forsmark CE, Guda N, Gelrud A, Romagnuolo J, Brand R, LaRusch J, Amann ST, Slivka A, Whitcomb DC, Yadav D. Differences in Age at Onset of Symptoms, and Effects of Genetic Variants, in Patients With Early- vs Late-Onset Idiopathic Chronic Pancreatitis in a North American Cohort. *Clin Gastroenterol Hepatol.* 2020 Mar 30;. doi: 10.1016/j.cgh.2020.03.047. [Epub ahead of print] PubMed PMID: 32240833.
8. Prathapan KM, Ramos Rivers C, Anderson A, Koutroumpakis F, Koutroubakis IE, Babichenko D, Tan X, Tang G, Schwartz M, Proksell S, Johnston E, Hashash JG, Dunn M, Wilson A, Barrie A, Harrison J, Hartman D, Kim SC, Binion DG. Peripheral Blood Eosinophilia and Long-term Severity in Pediatric-Onset Inflammatory Bowel Disease. *Inflamm Bowel Dis.* 2020 Jan 21;. doi: 10.1093/ibd/izz323. [Epub ahead of print] PubMed PMID: 31960916.

9. Din H, Anderson AJ, Ramos Rivers C, Proksell S, Koutroumpakis F, Salim T, Babichenko D, Tang G, Koutroubakis IE, Schwartz M, Johnston E, Barrie A, Harrison J, Hashash J, Dunn MA, Hartman DJ, Binion DG. Disease Characteristics and Severity in Patients With Inflammatory Bowel Disease With Coexistent Diabetes Mellitus. *Inflamm Bowel Dis*. 2020 Jan 16;. doi: 10.1093/ibd/izz305. [Epub ahead of print] PubMed PMID: 31944255.
10. Gondwe T, Betha K, Kusneniwar GN, Bunker CH, Tang G, Simhan H, Haggerty CL. Adverse infant outcomes associated with caesarean section delivery in India. *Int Health*. 2019 Dec 10;. doi: 10.1093/inthealth/ihz111. [Epub ahead of print] PubMed PMID: 31819983.
11. Gondwe T, Ness R, Totten PA, Astete S, Tang G, Gold MA, Martin D, Haggerty CL. Novel bacterial vaginosis-associated organisms mediate the relationship between vaginal douching and pelvic inflammatory disease. *Sex Transm Infect*. 2019 Dec 6;. doi: 10.1136/sextrans-2019-054191. [Epub ahead of print] PubMed PMID: 31810995.
12. Jeon CY, Whitcomb DC, Slivka A, Brand RE, Gelrud A, Tang G, Abberbock J, AlKaade S, Guda N, Mel Wilcox C, Sandhu BS, Yadav D. Lifetime Drinking History of Persons With Chronic Pancreatitis. *Alcohol Alcohol*. 2019 Dec 1;54(6):615-624. doi: 10.1093/alcalc/agz072. PubMed PMID: 31603464; PubMed Central PMCID: PMC6895458.
13. Dasyam AK, Vipperla K, Slivka A, Gong T, Papachristou GI, Whitcomb DC, Yadav D. Computed tomography based scoring system in a prospectively ascertained cohort of patients with chronic pancreatitis. *Pancreatology*. 2019 Dec;19(8):1027-1033. doi: 10.1016/j.pan.2019.09.013. Epub 2019 Oct 11. PubMed PMID: 31630919.
14. Gondwe T, Betha K, Kusneniwar GN, Bunker CH, Tang G, Simhan H, Reddy PS, Haggerty CL. Maternal Factors Associated with Mode of Delivery in a Population with a High Cesarean Section Rate. *J Epidemiol Glob Health*. 2019 Dec;9(4):252-258. doi: 10.2991/jegh.k.191017.001. PubMed PMID: 31854166.
15. Matta B, Gougol A, Gao X, Reddy N, Talukdar R, Kochhar R, Goenka MK, Gulla A, Gonzalez JA, Singh VK, Ferreira M, Stevens T, Barbu ST, Nawaz H, Gutierrez SC, Zarnescu NO, Capurso G, Easler J, Triantafyllou K, Pelaez-Luna M, Thakkar S, Ocampo C, de-Madaria E, Cote GA, Wu BU, Paragomi P, Pothoulakis I, Tang G, Papachristou GI. Worldwide Variations in Demographics, Management, and Outcomes of Acute Pancreatitis. *Clin Gastroenterol Hepatol*. 2019 Nov 9;. doi: 10.1016/j.cgh.2019.11.017. [Epub ahead of print] PubMed PMID: 31712075.

16. Swain SM, Tang G, Lucas PC, Robidoux A, Goerlitz D, Harris BT, Bandos H, Geyer CE Jr, Rastogi P, Mamounas EP, Wolmark N. Pathologic complete response and outcomes by intrinsic subtypes in NSABP B-41, a randomized neoadjuvant trial of chemotherapy with trastuzumab, lapatinib, or the combination. *Breast Cancer Res Treat.* 2019 Nov;178(2):389-399. doi: 10.1007/s10549-019-05398-3. Epub 2019 Aug 19. PubMed PMID: 31428908; PubMed Central PMCID: PMC6797698.
17. Rose OM, Fredricks DN, Soge OO, Farooq F, Tang G, Ness R, Haggerty CL. Stability of *Chlamydia trachomatis* RNA after long-term biobank storage. *Sex Transm Infect.* 2019 Nov;95(7):551. doi: 10.1136/sextrans-2019-054141. PubMed PMID: 31628264.
18. Machicado JD, Dudekula A, Tang G, Xu H, Wu BU, Forsmark CE, Yadav D. Period prevalence of chronic pancreatitis diagnosis from 2001-2013 in the commercially insured population of the United States. *Pancreatology.* 2019 Sep;19(6):813-818. doi: 10.1016/j.pan.2019.07.003. Epub 2019 Jul 17. PubMed PMID: 31350077; PubMed Central PMCID: PMC6756969.
19. Schwarzenberg, S. J., Uc, A., Zimmerman, B., Wilschanski, M., Wilcox, C. M., Whitcomb, D. C., **Abberbock, J.** Tang G, . Yadav, D. (2019). Chronic Pancreatitis: Pediatric and Adult Cohorts Show Similarities in Disease Progress Despite Different Risk Factors. *Journal of pediatric gastroenterology and nutrition*, 68(4), 566-573. doi:10.1097/MPG.0000000000002279.
20. **Abberbock, J.**, Anderson, S., Rastogi, P., & Tang, G. (2019). Assessment of effect size and power for survival analysis through a binary surrogate endpoint in clinical trials. *Statistics in Medicine*, 38(3), 301-314. doi:10.1002/sim.7981.
21. Lan, Y., Tang, G., & Heitjan, D. F. (2019). Statistical modeling and prediction of clinical trial recruitment. *Statistics in Medicine*, 38(6), 945-955. doi:10.1002/sim.8036.
22. Greer, J. B., Greer, P., Sandhu, B. S., Alkaade, S., Wilcox, C. M., Anderson, M. A., .Tang, G . . Yadav, D. (2019). Nutrition and Inflammatory Biomarkers in Chronic Pancreatitis Patients. *Nutrition in Clinical Practice.* Jun;34(3):387-399. doi: 10.1002/ncp.10186.
23. Fang, Z., Ma, T., Tang, G., Zhu, L., Yan, Q., Wang, T., . . . Tseng, G. C. (2018). Bayesian integrative model for multi-omics data with missingness. *Bioinformatics*, 34(22), 3801-3808. doi:10.1093/bioinformatics/bty775.
24. Muniraj, T., Yadav, D., **Abberbock, J. N.**, Alkaade, S., Amann, S. T., Anderson, M. A., . .Tang G, . Wilcox, C. M. (2019). Increased awareness enhances physician recognition of the role of smoking in chronic pancreatitis. *Pancreatology.* doi:10.1016/j.pan.2019.02.009

25. Geyer, C. E., Tang, G., Mamounas, E. P., Rastogi, P., Paik, S., Shak, S., . . . Wolmark, N. (2018). 21-Gene assay as predictor of chemotherapy benefit in HER2-negative breast cancer.. *NPJ Breast Cancer*, 4, 37. doi:10.1038/s41523-018-0090-6.
26. Dugum, M., Gougol, A., Paragomi, P., **Gao, X.**, Matta, B., Yazici, C., . . . Papachristou, G. I. (2018). Association of Dietary Habits with Severity of Acute Pancreatitis.. *Curr Dev Nutr*, 2(12), nzy075. doi:10.1093/cdn/nzy075.
27. Gondwe, T., Betha, K., Kusneniwar, G. N., Bunker, C. H., Tang, G., Simhan, H., . . . Haggerty, C. L. (2018). Mode of delivery and short-term infant health outcomes: A prospective cohort study in a peri-urban Indian population. *BMC Pediatrics*, 18(1). doi:10.1186/s12887-018-1324-3.
28. Phillips, A. E., LaRusch, J., Greer, P., **Abberbock, J.**, Alkaade, S., Amann, S. T., . . . Yadav, D. (2018). Known genetic susceptibility factors for chronic pancreatitis in patients of European ancestry are rare in patients of African ancestry. *Pancreatology*, 18(5), 528-535. doi:10.1016/j.pan.2018.05.482
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## 2. Books and Book Chapters

1. Authors (same order as publication). Title of Chapter. *Book Title*. Place of Publication: Publisher. Year and Date. pages.

Tang, G., Little, R. J., & Raghunathan, T. E. (2004). Analysis of Multivariate Monotone Missing Data by a Pseudolikelihood Method. In: Lin D, Heagerty PJ, editors. Proceedings of the Second Seattle Symposium in Biostatistics: Analysis of Correlative Data. Lecture Notes in Statistics. New York: Springer-Verlag.

### **3. Published Proceedings**

1. Authors (same order as publication). Title of Article. *Journal Title*. Year and Date. Volume (Issue): pages.

### **4. Invited Articles**

1. Authors (same order as publication). Title of Article. *Journal Title*. Year and Date. Volume (Issue): pages.

Tang G, Elliot MR A conversation with Rod Little on his career in statistics. AMSTAT News, September 1, 2015.

### **5. Review Articles**

1. Authors (same order as publication). Title of Article. *Journal Title*. Year and Date. Volume (Issue): pages.

### **6. Published Abstracts**

1. Authors (same order as publication). Title of Article. *Journal Title*. Year and Date. Volume (Issue): pages.

### **7. Presentations**

1. (As applicable) Authors (same order as publication). Title of Abstract or Presentation. (*Journal Title*. Year and Date. Volume (Issue): pages. OR Title of Meeting/Conference/etc., Location, Date.)
  1. Bodnar LM, Tang G, Ness RB, Harger GH, Roberts JM. Periconceptional multivitamin use and the risk of preeclampsia. Presented at: Society for Pediatric and Perinatal Epidemiologic Research; 2006; Seattle, WA.
  2. Tang G, Cuzick J, Wale C, Costantino JP, Crager M, Shak S, Dowsett M, Forbes J, Wolmark N. Recurrence risk of node-negative and ER-positive early stage breast cancer patients by combining Recurrence Score, pathologic, and clinical information: a meta analysis approach. Presented at: The 2010 ASCO Annual Meeting; 2010 Jun; Chicago.

3. Tang G, Costantino JP, Cramer M, Shak S, Wolmark N. Comparing the Prediction of Chemotherapy Benefit in Patients with Node-Negative, ER-Positive Breast Cancer Using the Recurrence Score and a New Measure That Integrates Clinical and Pathologic Factors. Presented at: The San Antonio Breast Cancer Symposium; 2010 Dec; San Antonio.
4. Bear HD, Tang G, Rastogi P, Geyer C, Robidoux A, Costantino JP, Wolmark N. The effect on pCR of bevacizumab and/or antimetabolites added to standard. Presented at: 2011 ASCO Annual Meeting; 2011 Jun 4-8; Chicago, IL.
5. Swain SS, Tang G, Geyer C, Rastogi P, Atkins J, Donnellan P, Fehrenbacher L. NSABP B-38: Definitive analysis of patient outcome from a randomized trial comparing dose-dense (DD) AC<sub>2</sub>paclitaxel (P) plus gemcitabine (G) with DD AC<sub>2</sub>P and with docetaxel, doxorubicin and cyclophosphamide (TAC) in women with operable, node-positive breast cancer. Presented at: ASCO Annual Meeting 2012; 2012 Jun; Chicago, IL.
6. Robidoux A, Tang G, Rastogi P, Geyer C, Azar CA. Evaluation of lapatinib as a component of neoadjuvant therapy for HER2+ operable breast cancer: NSABP protocol B-41. Presented at: ASCO Annual Meeting 2012; 2012 Jun; Chicago, IL.
7. Tang G. An imputation method for data with nonignorable nonresponse. Presented at: International Chinese Statistical Association Symposium; 2012 Jun 24-25; Boston.
8. Mamounas E, Tang G, Paik S, Baehner FL, Liu Q, Jeong, Jong-Hyeon. Association between the 21-gene recurrence score (RS) and benefit from adjuvant paclitaxel (Pac) in node-positive (N+), ER-positive breast cancer patients (pts): Results from NSABP B-28. Presented at: SABCS; 2012 Dec; San Antonio.
9. Won S, Tang G, Li R. Joint modeling of Time-to-Event data and multiple ratings without a gold standard. Poster presented at: ENAR Spring Meeting; 2013 Mar; Orlando.
10. Janney C, Kriska A, Ganguli R, Richardson C, Cauley JA, Tang G, Holleman R. Sedentary behavior and psychiatric symptoms in overweight and obese adults with schizophrenia and schizoaffective disorders. Poster presented at: 34th Annual Meeting & Scientific Sessions of the Society of Behavioral Medicine; 2013 Mar.
11. Tang G. A class of tests of MCAR for regression data with nonresponse. Presented at: ENAR 2013 Spring meeting; 2013 Mar 6-9; Orlando.
12. Mamounas E, Tang G, Paik S, Baehner FL, Liu Q. The 21-gene Recurrence Score (RS) Predicts Risk of Loco-regional Recurrence (LRR) in Node (+), ER (+) Breast Cancer (BC) After Adjuvant Chemotherapy and Tamoxifen: Results from NSABP B-28. Presented at: Society of Surgical Oncology; 2013 Mar 6-9; National Harbor, MD.
13. Zhang Y, Tang G. A Modified EM Algorithm for Regression Analysis of Data with Non-ignorable Non-response. Presented at: ENAR 2014 Spring Meeting; 2014 Mar; Baltimore, MD.



14. Hunt MJO, Tang G. The Effect of Imputing a Complex Outcome on the Rejection Rate of Pearson's Chi-Square Test of Independence and a Permutation-Based Correction Factor. Presented at: ENAR 2014 Spring Meeting; 2014 Mar; Baltimore, MD.
15. He F, Mazumdar S, Tang G, Anderson SJ. Nonparametric MANOVA approaches for non-normal multivariate outcomes with missing values. Presented at: Biometric Society meeting, Eastern North American Region; 2014 Mar 16-19; Baltimore, MD.
16. Tang G. A Robust Iterative Algorithm for Regression Analysis of Data with Nonresponse. Presented at: Joint Statistical Meeting; 2014 Aug 3-7; Boston, MA.
17. Robideaux A, Tang G, Rastogi P, et al. Evaluation of lapatinib as a component of neoadjuvant therapy for HER2+ operable breast cancer: 5-year outcomes of NSABP protocol B-41. Presented at: The American Society of Clinical Oncology 2016; 2016 Jun 3-7; Chicago, IL.
18. Sandra M. Swain, Gong Tang, Heather Ann Brauer, David Goerlitz, Peter C. Lucas, Brent T. Harris, Andre Robidoux, Charles E. Geyer, Priya Rastogi, Eleftherios P. Mamounas, Norman Wolmark. NSABP B-41, a randomized neoadjuvant trial: Genes and signatures associated with pathologic complete response (pCR). Presented at: The American Society of Clinical Oncology 2019; 2019 Jun 1-4; Chicago, IL.
19. Tang G. An Approximated Expectation-Maximization Algorithm for Analysis of Data with Missing Values. ENAR, March, 2020
20. Tan X, Abberbock J, Rastogi P, and Tang G. A New Method for Estimating a Principal Stratum Causal Effect Conditioning on Post-Treatment Intermediate Response. ENAR, March, 2020.

## 8. Non-Print Media

1. (As applicable) Authors (same order as publication). Title of Article. *Title of Media* [Indication of Media]. Publishing Company. Year and Date. Volume (Issue): pages or path.

## 9. Other Publications

1. Authors (same order as publication). Title of Article. *Journal Title*. Year and Date. Volume (Issue): pages.

## SERVICE

### 1. Service to School and University

Years	Committee	Position
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<b>Years</b>	<b>Committee</b>	<b>Position</b>
2008 - 8/2014	GSPH Planning and Budget Policies	Member, Chair 2012-4 (elected)
2011-present	Department Curriculum Committee	Member
2018 -	Department Doctor Monitoring Committee	Member
2012-2016	Department IT Committee	Chair

## **2. Service to Field of Scholarship**

### **a. Editorial Boards, Editorships**

<b>Date</b>	<b>Position</b>	<b>Organization</b>
2018-	Editorial Board Member	Annals of Surgical Oncology

### **b. Manuscript and Other Document/Publication Review**

<b>Dates</b>	<b>Journal Title</b>
2002 - 2004	Reviewer, Applied Statistics (JRSSC)
2002 – 2009, 2020	Reviewer, Biometrics
2002 - Present	Reviewer, Journal of clinical oncology : official journal of the American Society of Clinical Oncology
2003 - 2009	Reviewer, Journal of the American Statistical Association
2004 - 2004	Reviewer, Biostatistics
2004 - 2006	Reviewer, Journal of National Cancer Institute
2004 – 2006 2018 – 2019	Reviewer, Annals of Surgical Oncology
2005 – 2005	Reviewer, Biometrical Journal
2008 – 2008	Reviewer, Annals of the Institute of Statistical Mathematics
2009 – 2009, 2012-2014, 2019	Reviewer, Biometrika
2009 – 2009	Reviewer, Statistics in Biopharmaceutical Research
2009 – 2009	Reviewer, Communications in Statistics – Simulation and Computation
2010 – 2010	Reviewer, Journal of Official Statistics
2010 – 2013	Reviewer, Statistica Sinica

<b>Dates</b>	<b>Journal Title</b>
2011 – 2011	Reviewer, Journal of the Korean Statistical Society
2013 – 2019	Reviewer, Statistics in Medicine
10/2013 – 2016	Reviewer, Journal of the American Statistical Association
2/2014 – 5/2014	Reviewer, The Scandinavian Journal of Statistics
4/2014 – 6/2014	Reviewer, Clinical Trials: Journal of the Society for Clinical Trials
5/2014 – 2016	Reviewer, Applied Statistics (JRSSC)
2015 – 2016	Reviewer, Contemporary Clinical trials
2015 – 2017, 2019	Reviewer, Journal of Statistical Planning and Inference
2016 – 2017	Reviewer, Statistica Sinica
2017	Reviewer, Statistical Methods in Medical Research
2018	Reviewer, Cancer
2018	Reviewer, Test
2018	Reviewer, Annals of Oncology
2018	Reviewer, Canadian Journal of Statistics
2018-	Reviewer, Annals of Statistics
2019	Reviewer, PCORI Report
2020	British Journal of Cancer
2020	Nature Partners Journal Breast Cancer

### **c. Study Sections, Review Panels, and Advisory Boards**

<b>Date</b>	<b>Position</b>	<b>Organization and Nature of Activity</b>
2009 – 2010	Reviewer	Center for Scientific Review, NIH
2011 – 2014	Reviewer	Special Emphasis Panel, CADP, NCI
2014 – 2016	Member	Data Monitoring Committee of the Incyte Inc
2018	Reviewer	Molecular Profiling to Predict Response to Treatment (MP2PRT) Program, NCI
2018-2020	Reviewer	Florida Department of Health Research Program Peer Review Panel
2020	Steering Committee Member	The Early Breast Cancer Trialists' Collaborative Group, Oxford, UK

### **d. Leadership in Scholarly and Professional Organizations and Honorary Societies**

<b>Date</b>	<b>Position</b>	<b>Organization</b>
2004 – 2006, 2010	Treasurer/Secretary	American Statistical Association Pittsburgh Chapter
2007-2012	Chapter Representative	American Statistical Association Pittsburgh Chapter

### **3, Service for Practice and Policy-Making, including Consultantships**

#### **a. Governmental Organizations**

<b>Date</b>	<b>Position</b>	<b>Type of Service and/or Agency</b>
10/8/2012	Organizer	ASA-sponsored travel course “Applied Mixed Models” at University of Pittsburgh

#### **b. Non-Governmental and Community-Based Organizations**

<b>Date</b>	<b>Position</b>	<b>Type of Service and/or Organization</b>
2015, 2018	Special Award Judge	Intel International Science and Engineering Affair
2012-2014	Judge	Pittsburgh Regional Science and Engineering Affair

### **4. Non-Professional Service**

<b>Year(s)</b>	<b>Position and Organization</b>	<b>Type of Service</b>
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**5. Clinical and Related Activities (OPTIONAL - if applicable)**

**A. Outpatient: Patient Care**

<u>LOCATION/SERVICE</u>	<u>DESCRIBE ACTIVITY</u> (e.g. patient care, call, surgery, precepting, etc.)	<u>TIME DEVOTED TO ACTIVITY</u> (e.g. number of half days/week, number of days/year, etc.)
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Supporting descriptive information (if applicable)

**B. Inpatient: Patient Care**

<u>LOCATION/SERVICE</u>	<u>DESCRIBE ACTIVITY</u> (e.g. patient care, precepting, call, surgery, etc.)	<u>TIME DEVOTED TO ACTIVITY</u> (e.g. number of half days/week, number of days/year, etc.)
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Supporting descriptive information (if applicable)

**C. Other Patient Care**

<u>LOCATION/SERVICE</u>	<u>DESCRIBE ACTIVITY</u> (e.g. patient care, call, surgery, etc.)	<u>TIME DEVOTED TO ACTIVITY</u> (e.g. number of half days/week, number of days/year, etc.)
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Supporting descriptive information (if applicable)